

IN THE CLAIMS

For the convenience of the Examiner, all pending claims of the Application are reproduced below.

1. (Currently Amended) A method for handover execution in a wireless environment, comprising:

~~communicating, by a mobile network,~~ receiving and recognizing a handover command message ~~to~~ at a physical layer of a mobile station to initiate a handover execution, the handover command message being ~~received~~ communicated ~~by the physical layer a mobile network,~~ and the physical layer of the mobile station responding to the handover command message by communicating with a data link layer and a radio resource management (RRM) layer of the mobile station such that the RRM layer suspends its non-handover signaling, by tuning to a handed to frequency, and by communicating physical layer bursts over the handed to frequency to the mobile network such that initial timing advance and power control setting characteristics are determined by the mobile network, wherein the physical layer corresponds to layer one communications, the data link layer corresponds to layer two communications, and the RRM layer corresponds to layer three communications; and

~~communicating~~ receiving a cease signal, ~~by the mobile network, to~~ at the mobile station to stop communicating the physical layer bursts, the mobile station responding to the cease signal by ending the transmission of the physical layer bursts and by establishing a new communications link over the handed to frequency with the mobile network, wherein once the new communications link is established the mobile station and the mobile network couple to a voice path such that a wireless communication associated with the mobile station and the mobile network is facilitated.

2. (Original) The method of Claim 1, wherein communicating the handover command message to initiate the handover execution to the physical layer comprises communicating the handover command message through a radio resource management (RRM) layer, a data link layer, and a physical layer associated with the mobile network.

3. (Currently Amended) The method of Claim 2, further comprising ~~suspending signaling of a non handover status updating~~, by the ~~physical~~ data link layer of the mobile station, ~~in response to an internal state as if the mobile station had received one or more frames that included~~ the handover command message that is communicated by the mobile network.

4. (Original) The method of Claim 1, further comprising completing a handover decision associated with the mobile station and the mobile network before the handover command message is communicated by the mobile network.

5. (Original) The method of Claim 1, wherein once the new communications link is established between the mobile station and the mobile network, the mobile station communicates a signal to the mobile network indicating completion of the handover execution.

6. (Currently Amended) A method for handover execution in a wireless environment, comprising:

~~receiving, from a mobile network, and recognizing~~ a handover command message ~~from a mobile network~~ to initiate a handover execution, the handover command message being received by a physical layer of a mobile station;

responding to the handover command message by communicating with a data link layer and a radio resource management (RRM) layer of the mobile station such that the RRM layer suspends its non-handover signaling;

tuning, by the physical layer, to a handed to frequency;

communicating, by the physical layer, physical layer bursts over the handed to frequency to the mobile network such that initial timing advance and power control setting characteristics are determined by the mobile network;

receiving, from the mobile network, a cease signal indicating to stop communicating the physical layer bursts;

ending, by the physical layer, the transmission of the physical layer bursts; and

establishing a new communications link over the handed to frequency with the mobile network, wherein once the new communications link is established the mobile station and the mobile network couple to a data path such that a wireless communication associated with the mobile station and the mobile network is facilitated, wherein the physical layer corresponds to layer one communications, the data link layer corresponds to layer two communications, and the RRM layer corresponds to layer three communications.

7. (Original) The method of Claim 6, wherein the handover command message to initiate the handover execution is communicated through a radio resource management (RRM) layer, a data link layer, and a physical layer associated with the mobile network.

8. (Currently Amended) The method of Claim 7, further comprising ~~suspending signaling of a non-handover status~~ updating, by the ~~physical~~ data link layer of the mobile station, ~~in response to an internal state as if the mobile station had received one or more frames that included~~ the handover command message.

9. (Original) The method of Claim 6, further comprising completing a handover decision associated with the mobile station and the mobile network before the handover command message is received by the physical layer of the mobile station.

10. (Original) The method of Claim 6, wherein once the new communications link is established between the mobile station and the mobile network, the mobile station communicates a signal to the mobile network indicating completion of the handover execution.

11. (Currently Amended) Software embodied in a computer readable media for performing handover execution in a wireless environment, the software operable to:

~~communicate~~ receive and recognize a handover command message ~~to~~ at a physical layer of a mobile station to initiate a handover execution, the handover command message being ~~received~~ communicated by ~~the physical layer of the mobile station, and the physical layer of the mobile station~~ responding to the handover command message by communicating with a data link layer and a radio resource management (RRM) layer of the mobile station such that the RRM layer suspends its non-handover signaling, by tuning to a handed to frequency, and by communicating physical layer bursts over the handed to frequency to a mobile network such that initial timing advance and power control setting characteristics are determined by the mobile network, wherein the physical layer corresponds to layer one communications, the data link layer corresponds to layer two communications, and the RRM layer corresponds to layer three communications; and

~~communicate~~ receive a cease signal ~~to~~ at the mobile station to stop communicating the physical layer bursts, the mobile station responding to the cease signal by ending the transmission of the physical layer bursts and by establishing a new communications link over the handed to frequency with the mobile network, wherein once the new communications link is established the mobile station and the mobile network couple to a data path such that a wireless communication associated with the mobile station and the mobile network is facilitated.

12. (Original) The software of Claim 11, wherein the software that is operable to communicate the handover command message to initiate the handover execution to the physical layer of the mobile station comprises a radio resource management (RRM) layer, a data link layer, and a physical layer associated with the mobile network.

13. (Currently Amended) The software of Claim 12, further operable to ~~suspend signaling of a non-handover status~~ update, by the ~~physical~~ data link layer of the mobile station, ~~in response to an internal state as if the mobile station had received one or more frames that included~~ the handover command message.

14. (Original) The software of Claim 11, further operable to complete a handover decision associated with the mobile station and the mobile network before the handover command message is communicated by the mobile network.

15. (Original) The software of Claim 11, wherein the mobile station comprises software operable to communicate a signal to the mobile network indicating completion of the handover execution after the new communications link is established between the mobile station and the mobile network.

16. (Currently Amended) Software embodied in a computer readable media for performing handover execution in a wireless environment, the software operable to:

receive and recognize, from a mobile network, a handover command message from a mobile network to initiate a handover execution, the handover command message being received by a physical layer of a mobile station;

respond to the handover command message by communicating with a data link layer and a radio resource management (RRM) layer of the mobile station such that the RRM layer suspends its non-handover signaling;

tune to a handed to frequency;

communicate physical layer bursts to the mobile network over the handed to frequency such that initial timing advance and power control setting characteristics are determined by the mobile network;

receive, from the mobile network, a cease signal indicating to stop communicating the physical layer bursts;

end the transmission of the physical layer bursts; and

establish a new communications link with the mobile network, wherein once the new communications link is established the mobile station and the mobile network couple to a data path such that a wireless communication associated with the mobile station and the mobile network is facilitated, wherein the physical layer corresponds to layer one communications, the data link layer corresponds to layer two communications, and the RRM layer corresponds to layer three communications.

17. (Original) The software of Claim 16, wherein the software operable to receive the handover command message to initiate the handover execution is in response to a communication from the mobile network, and wherein the software is further operable to communicate the handover command message through a radio resource management (RRM) layer, a data link layer, and a physical layer associated with the mobile network.

18. (Currently Amended) The software of Claim 17, further operable to ~~suspend signaling of a non handover status in response to~~ update, by the data link layer of the mobile station, an internal state as if the mobile station had received one or more frames that included the handover command message that is received by the physical layer of the mobile station.

19. (Original) The software of Claim 16, further operable to complete a handover decision associated with the mobile station and the mobile network before the handover command message is received by the physical layer of the mobile station.

20. (Original) The software of Claim 16, wherein the mobile station comprises software operable to communicate a signal to the mobile network indicating completion of the handover execution after the new communications link is established between the mobile station and the mobile network.

21. (Currently Amended) A system for handover execution in a wireless environment, comprising:

means for ~~communicating, by a mobile network,~~ receiving and recognizing a handover command message ~~to~~ at a physical layer of a mobile station to initiate a handover execution, the handover command message being ~~received~~ communicated by ~~the physical layer a mobile network,~~ and the physical layer of the mobile station responding to the handover command message by communicating with a data link layer and a radio resource management (RRM) layer of the mobile station such that the RRM layer suspends its non-handover signaling, by tuning to a handed to frequency, and by communicating physical layer bursts over the handed to frequency to the mobile network such that initial timing advance and power control setting characteristics are determined by the mobile network, wherein the physical layer corresponds to layer one communications, the data link layer corresponds to layer two communications, and the RRM layer corresponds to layer three communications; and

means for ~~communicating~~ receiving a cease signal, ~~by the mobile network, to~~ at the mobile station to stop communicating the physical layer bursts, the mobile station responding to the cease signal by ending the transmission of the physical layer bursts and by establishing a new communications link over the handed to frequency with the mobile network, wherein once the new communications link is established the mobile station and the mobile network couple to a voice path such that a wireless communication associated with the mobile station and the mobile network is facilitated.

22. (Original) The system of Claim 21, wherein the means for communicating the handover command message to initiate the handover execution to the physical layer comprises means for communicating the handover command message through a radio resource management (RRM) layer, a data link layer, and a physical layer associated with the mobile network.

23. (Currently Amended) The system of Claim 22, further comprising means for ~~suspending signaling of a non-handover status updating~~, by the ~~physical data link~~ layer of the mobile station, ~~in response to~~ an internal state as if the mobile station had received one or more frames that included the handover command message that is communicated by the mobile network.

24. (Original) The system of Claim 21, further comprising means for completing a handover decision associated with the mobile station and the mobile network before the handover command message is communicated by the mobile network.

25. (Original) The system of Claim 21, wherein once the new communications link is established between the mobile station and the mobile network, the mobile station communicates a signal to the mobile network indicating completion of the handover execution.

26. (Currently Amended) A system for handover execution in a wireless environment, comprising:

means for receiving and recognizing, from a mobile network, a handover command message from a mobile network to initiate a handover execution, the handover command message being received by a physical layer of a mobile station;

means for responding to the handover command message by communicating with a data link layer and a radio resource management (RRM) layer of the mobile station such that the RRM layer suspends its non-handover signaling;

means for tuning, by the physical layer, to a handed to frequency;

means for communicating, by the physical layer, physical layer bursts over the handed to frequency to the mobile network such that initial timing advance and power control setting characteristics are determined by the mobile network;

means for receiving, from the mobile network, a cease signal indicating to stop communicating the physical layer bursts;

means for ending, by the physical layer, the transmission of the physical layer bursts;  
and

means for establishing a new communications link over the handed to frequency with the mobile network, wherein once the new communications link is established the mobile station and the mobile network couple to a data path such that a wireless communication associated with the mobile station and the mobile network is facilitated, wherein the physical layer corresponds to layer one communications, the data link layer corresponds to layer two communications, and the RRM layer corresponds to layer three communications.

27. (Original) The system of Claim 26, wherein the handover command message to initiate the handover execution is communicated through a radio resource management (RRM) layer, a data link layer, and a physical layer associated with the mobile network.

28. (Currently Amended) The system of Claim 27, further comprising means for suspending signaling of a non-handover status updating, by the physical data link layer of the mobile station, in response to an internal state as if the mobile station had received one or more frames that included the handover command message.

29. (Original) The system of Claim 26, further comprising means for completing a handover decision associated with the mobile station and the mobile network before the handover command message is received by the physical layer of the mobile station.

30. (Original) The system of Claim 26, wherein once the new communications link is established between the mobile station and the mobile network, the mobile station communicates a signal to the mobile network indicating completion of the handover execution.